

INVENTORSHIP DECLARATION BY JOINT INVENTORS

I HEREBY DECLARE THAT:

My residence, mailing address, and citizenship are stated next to my name in PART A hereof.

I believe I am the original, first, and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled

MICROELECTRONIC DEVICES, METHODS FOR FORMING VIAS IN MICROELECTRONIC DEVICES, AND METHODS FOR PACKAGING MICROELECTRONIC DEVICES

the specification of which:

☒ is attached hereto.

☐ was filed on _____ as Application Serial No. _____ and was amended on _____ (if applicable).

I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with 37 CFR §1.56, including, for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim priority benefits under 35 USC §119(a)-(d) or (f), §172, or §365(a)-(b) of any foreign or international application(s) for patent or inventor's certificate listed in PART B hereof and have also identified in PART B hereof any such foreign or international application having a filing date before that of the application of which priority is claimed.

I hereby declare that all statements made herein of my knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon. I understand that the execution of this document does not in itself establish an attorney-client relationship between the undersigned and Perkins Coie LLP, or any of its attorneys.

INVENTORSHIP DECLARATION BY JOINT INVENTORS

PART A: INVENTOR INFORMATION AND SIGNATURE

Full name of FIRST inventor: Sidney B. Rigg

Citizenship: USA Mailing Address: 2477 N. Leann Way
Meridian, Idaho 83642

Residence (if different): _____

Inventor's Signature:  Date: 10/29/03

Full name of SECOND inventor: Charles M. Watkins

Citizenship: USA Mailing Address: 1313 W. Meander Drive
Eagle, Idaho 83616

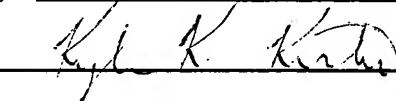
Residence (if different): _____

Inventor's Signature:  Date: 10/29/03

Full name of THIRD inventor: Kyle K. Kirby

Citizenship: USA Mailing Address: 10681 N. Sagecrest Place
Boise, Idaho 83703

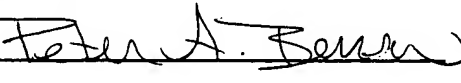
Residence (if different): _____

Inventor's Signature:  Date: 10/29/03

Full name of FOURTH inventor: Peter A. Benson

Citizenship: USA Mailing Address: 2188 White Pine Place
Boise, Idaho 83706

Residence (if different): _____

Inventor's Signature:  Date: 10/29/2003

Full name of FIFTH inventor: Salman Akram

Citizenship: Pakistan Mailing Address: 1463 E. Regatta Street
Boise, Idaho 83706

Residence (if different): _____

Inventor's Signature: Salman Akram Date: 10/29/03

INVENTORSHIP DECLARATION BY JOINT INVENTORS

PART B: CLAIM TO PRIORITY OF FOREIGN APPLICATION(S) UNDER
35 U.S.C. §119(a)-(d) or (f), §172, or §365(a)-(b)

<u>Country</u>	<u>App. No.</u>	<u>Filing Date</u>	<u>Priority Not Claimed</u>
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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: SIDNEY B. RIGG *ET AL.*
FILED: CONCURRENTLY HEREWITH
FOR: **MICROELECTRONIC DEVICES,
METHODS FOR FORMING VIAS IN
MICROELECTRONIC DEVICES, AND
METHODS FOR PACKAGING
MICROELECTRONIC DEVICES**

Power of Attorney by Assignee and Certification
Under 37 C.F.R. § 3.73(b)

Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

I, the undersigned, acting on behalf of the Assignee of the entire right, title and interest in the above-identified patent application, by virtue of an Assignment filed concurrently herewith, appoint the attorneys and agents listed below to prosecute this application and transact all business with the U.S. Patent and Trademark Office in connection therewith. This appointment is to the exclusion of the inventor(s) and their attorney(s) and agent(s) in accordance with the provisions of 37 C.F.R. § 3.71.

All prior powers of attorney for this application are hereby revoked. The Assignee hereby appoints

STEPHEN E. ARNETT, Registration No. 47,392
RODGER K. CARREYN, Registration No. 50,774
BRIAN R. COLEMAN, Registration No. 39,145
CHRISTOPHER DALEY-WATSON, Registration No. 34,807
PETER J. DEHLINGER, Registration No. 28,006
DAVID BOGART DORT, Registration No. 50,213
DAVID T. DUTCHER, Registration No. 51,638
LEEANN GORTHEY, Registration No. 37,337

JOSEPH HAMILTON, Registration No. 51,770
PAUL L. HICKMAN, Registration No. 28,516
EDWARD S. HOTCHKISS, Registration No. 33,904
STEVEN KELLEY, Registration No. 43,449
JONATHAN P. KUDLA, Registration No. 47,724
STEVEN D. LAWRENZ, Registration No. 37,376
JACQUELINE F. MAHONEY, Registration No. 48,390
SHAILESH MEHRA, Registration No. 44,934
JUDY M. MOHR, Registration No. 38,563
CHUN M. NG, Registration No. 36,878
NGUYEN H. NGUYEN, Registration No. 43,834
REBEKKA C. NOLL, Registration No. 46,962
KENNETH H. OHRINER, Registration No. 31,646
PAUL T. PARKER, Registration No. 38,264
MAURICE J. PIRIO, Registration No. 33,273
AARON J. POLEDNA, Registration No. 54,675
TIM R. SEELEY, Registration No. 53,575
LAUREN SLIGER, Registration No. 51,086
LARRY W. THROWER, Registration No. 47,994
GLENN E. VON TERSCH, Registration No. 41,364
JOHN M. WECHKIN, Registration No. 42,216
JAMES A.D. WHITE, Registration No. 43,985
MICHAEL J. WISE, Registration No. 34,047
ROBERT G. WOOLSTON, Registration No. 37,263
JAMES J. ZHU, Registration No. 52,396
all affiliated with Perkins Coie LLP; and

MICHAEL L. LYNCH, Reg. No. 30,871
CHARLES B. BRANTLEY, II, Reg. No. 38,086
RUSS SLIFER, Reg. No. 39,838
all affiliated with Micron Technology, Inc.

Direct all telephone calls to Paul T. Parker at (206) 359-3258. Address all correspondence to:

Customer No. 25096
Perkins Coie LLP
P.O. Box 1247
Seattle, Washington 98111-1247
(206) 359-8000

In accordance with 37 C.F.R. § 3.73(b), I hereby certify that I am empowered to act on behalf of the Assignee. To the best of my knowledge and belief, title is in the Assignee, as evidenced by the Assignment noted above.

I further declare that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Title 18, USC § 1001 and that such willful false statements may jeopardize the validity of this application or any patent resulting therefrom.

ASSIGNEE: MICRON TECHNOLOGY, INC.

Signature: 

Typed Name: Michael L. Lynch

Title: Chief Patent Counsel

Date: 11-12-2003

Address: 8000 South Federal Way

P.O. Box 6

Boise, Idaho 83706-9632

ASSIGNMENT


COPY

THIS ASSIGNMENT is by Sidney B. Rigg, Charles M. Watkins, Kyle K. Kirby, Peter A. Benson, and Salman Akram (the "Assignors"), residing at 2477 N. Leann Way, Meridian, Idaho 83642; 1313 W. Meander Drive, Eagle, Idaho 83616; 10681 N. Sagecrest Place, Boise, Idaho 83703; 2188 White Pine Place, Boise, Idaho 83706, and 1463 E. Regatta Street, Boise, Idaho 83706, respectively. We Assignors have invented one or more certain inventions (the "Invention(s)") described in a United States Patent Application entitled "MICROELECTRONIC DEVICES, METHODS FOR FORMING VIAS IN MICROELECTRONIC DEVICES, AND METHODS FOR PACKAGING MICROELECTRONIC DEVICES" (the "Application") and ☒ executed concurrently herewith; or ☐ filed on _____ as Application No. _____. We Assignors authorize the Assignee, identified below, or its representatives to insert the application number of the Application when known.

Micron Technology, Inc., a corporation of the State of Delaware having a place of business at 8000 South Federal Way, P.O. Box 6, Boise, Idaho 83706-9632 ("Assignee"), desires to acquire the entire right, title and interest in and to the Invention(s) and the Application, and in and to any patents (collectively, "Patents") that may be granted for the Invention(s) in the United States or in any foreign countries.

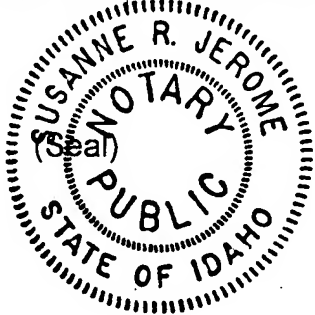
For valuable consideration, the receipt and sufficiency of which we acknowledge, Assignors hereby sell, assign, and transfer to Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to: the Invention(s), the Application, and any Patents; any divisions, continuations, and continuations-in-part of the Application and any other application claiming priority rights from the Application; any reissues, reexaminations, or extensions of any and all Patents; the right to file foreign applications directly in the name of Assignee; and the right to claim priority rights deriving from the Application (collectively, the "Rights"). Assignors warrant that they are joint owners of the Rights, and that the Rights are unencumbered. Assignors also agree to not sign any writing or do any act conflicting with this assignment, and, without further compensation, sign all documents and do such additional acts as Assignee deems necessary or desirable to: perfect Assignee's enjoyment of the Rights; prepare and prosecute the Application or any other applications for Patents; conduct proceedings regarding the Rights, including any litigation or interference proceedings; or

perfect or defend title to the Rights. Assignors request the Commissioner of Patents to issue any Patent of the United States that may be issued on the Invention(s) to Assignee. This Assignment may be executed in counterparts.

Date: 10/29/03

Sidney B. RiggSTATE OF IDAHOCOUNTY OF ADA

On October 29, 2003 before me, Susanne R. Jerome, personally appeared Sidney B. Rigg, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.



WITNESS my hand and official seal.

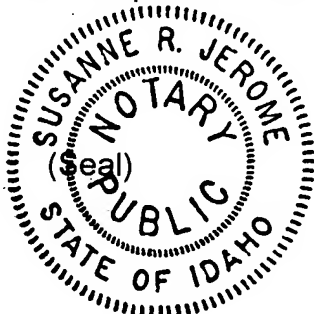


Signature

Date: 10/29/03

Charles M. WatkinsSTATE OF IDAHOCOUNTY OF ADA

On October 29, 2003 before me, Susanne R. Jerome, personally appeared Charles M. Watkins, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.



WITNESS my hand and official seal.

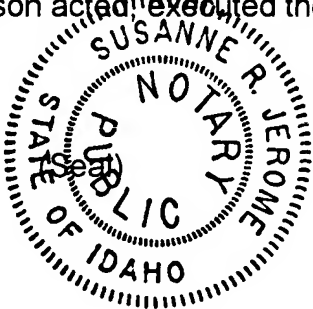


Signature

* * * * *

Date: 10/29/03Kyle K. Kirby
Kyle K. KirbySTATE OF IDAHOCOUNTY OF ADA

On October 29, 2003 before me, Susanne R. Jerome, personally appeared Kyle K. Kirby, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.



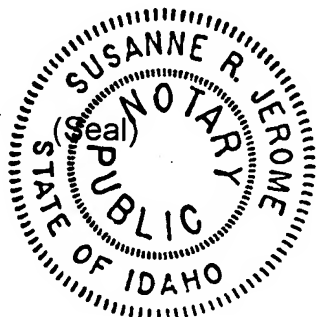
WITNESS my hand and official seal.

Susanne R. Jerome
Signature

* * * * *

Date: 10/29/2003Peter A. Benson
Peter A. BensonSTATE OF IDAHOCOUNTY OF ADA

On October 29, 2003 before me, Susanne R. Jerome, personally appeared Peter A. Benson, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.



WITNESS my hand and official seal.

Susanne R. Jerome
Signature

* * * * *

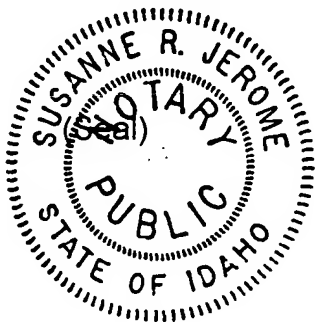
* * * * *

Date: 10/29/03Salman Akram

Salman Akram

STATE OF IDAHOCOUNTY OF ADA

On October 29, 2003 before me, Susanne R. Jerome, personally appeared Salman Akram, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.



WITNESS my hand and official seal.

Susanne R. Jerome
Signature

* * * * *